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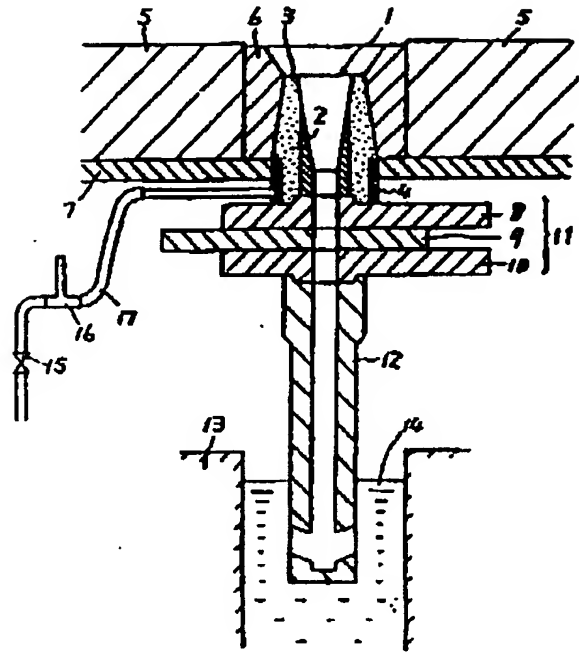
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TITLE : UPPER NOZZLE OF VESSEL FOR
MOLTEN METAL



ABSTRACT : PURPOSE: To prevent the clogging of the nozzle hole of an upper nozzle without spoiling the quality of steel by forming said nozzle into such constitution that the inside surface of said nozzle hole is made gas-impermeable between the center and the lower part and that an inert gas is supplied from the inside surface in the upper part of the nozzle hole into a molten metal.

CONSTITUTION: The inside surface of the part lower than at least the center of the nozzle hole of the upper nozzle 1 which drops the molten steel in the bottom of a vessel for the molten metal is formed of a gas sealing brick 2. The upper part thereof and the outside periphery are constituted of a porous brick 3. The inert gas passes through a pressure equalizing zone 4 and the brick 3 from an introducing pipe 17 and is blown from the inside surface in the upper part of the nozzle hole of the nozzle 1 into the molten steel. The clogging of the nozzle hole is thus effectively prevented without spoiling the quality of the steel.

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